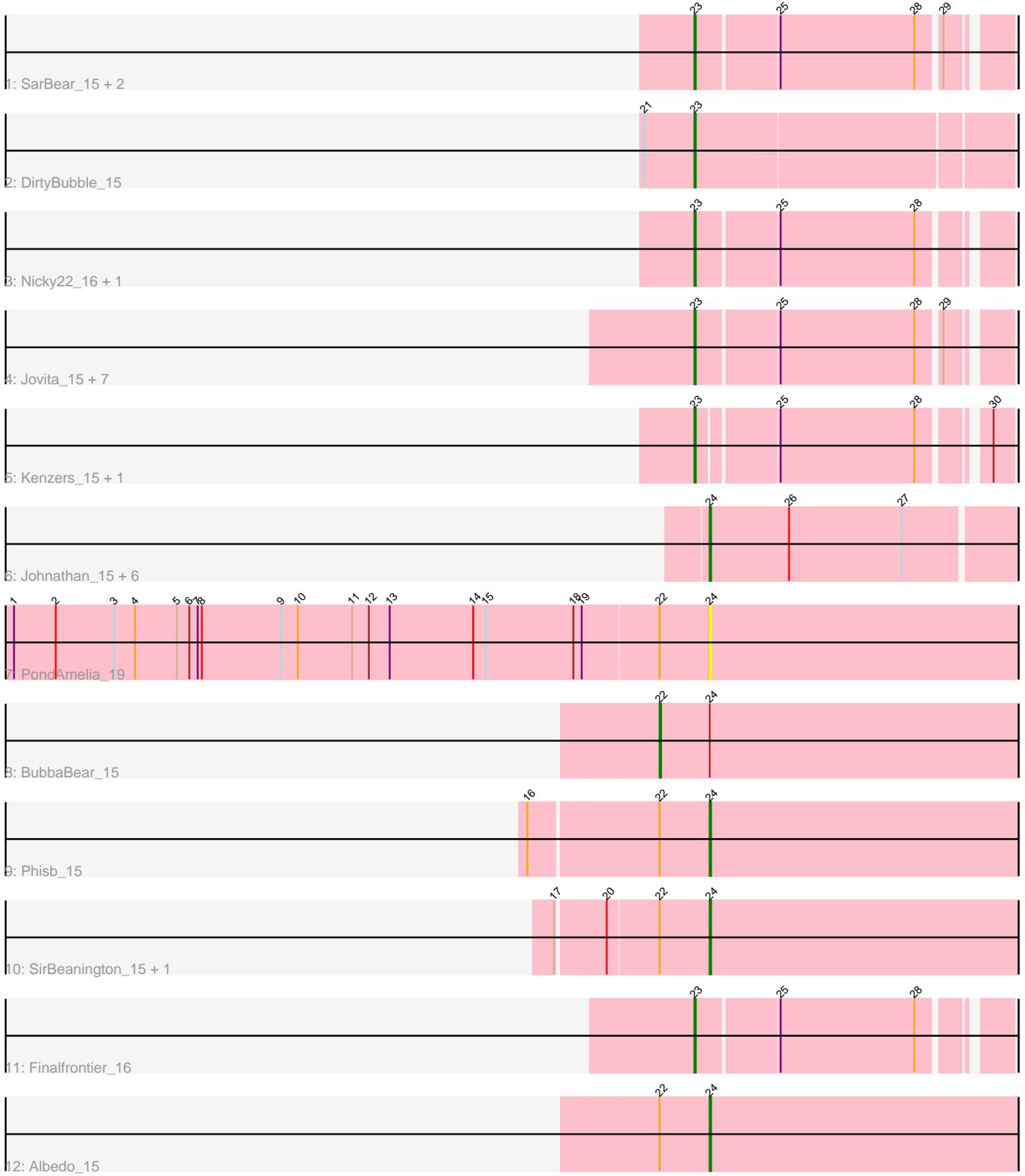# Pham 284068

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 284068 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284068 has 30 members, 6 are drafts.

Phages represented in each track:
• Track 1 : SarBear_15, Swervy_15, AylexOG_16
• Track 2 : DirtyBubble_15
• Track 3 : Nicky22_16, Lilo27_15
• Track 4 : Jovita_15, MsUbiquitous_15, TukTuk_15, Jabb_15, CupcakePrincess_15, QMacho_16, Eula_15, Pecas_15
• Track 5 : Kenzers_15, Lynlen_15
• Track 6 : Johnathan_15, LimaBean_15, Abigail_15, Milomuff_16, PastaFagioli_15, Avocadoman_15, Solea_17
• Track 7 : PondAmelia_19
• Track 8 : BubbaBear_15
• Track 9 : Phisb_15
• Track 10 : SirBeanington_15, Doobus_15
• Track 11 : Finalfrontier_16
• Track 12 : Albedo_15

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 23, it was called in 14 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AylexOG_16, CupcakePrincess_15, DirtyBubble_15, Eula_15, Finalfrontier_16, Jabb_15, Jovita_15, Kenzers_15, Lilo27_15, Lynlen_15, MsUbiquitous_15, Nicky22_16, Pecas_15, QMacho_16, SarBear_15, Swervy_15, TukTuk_15,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• Abigail_15, Albedo_15, Avocadoman_15, BubbaBear_15, Doobus_15, Johnathan_15, LimaBean_15, Milomuff_16, PastaFagioli_15, Phisb_15, PondAmelia_19, SirBeanington_15, Solea_17,

Summary by start number:

Start 22:
• Found in 6 of 30 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 16.7% of time when present
• Phage (with cluster) where this start called: BubbaBear_15 (EB),

Start 23:
• Found in 17 of 30 (56.7%) of genes in pham
• Manual Annotations of this start: 14 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AylexOG_16 (EB), CupcakePrincess_15 (EB), DirtyBubble_15 (EB), Eula_15 (EB), Finalfrontier_16 (EB), Jabb_15 (EB), Jovita_15 (EB), Kenzers_15 (EB), Lilo27_15 (EB), Lynlen_15 (EB), MsUbiquitous_15 (EB), Nicky22_16 (EB), Pecas_15 (EB), QMacho_16 (EB), SarBear_15 (EB), Swervy_15 (EB), TukTuk_15 (EB),

Start 24:
• Found in 13 of 30 (43.3%) of genes in pham
• Manual Annotations of this start: 9 of 24
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Abigail_15 (EB), Albedo_15 (EB), Avocadoman_15 (EB), Doobus_15 (EB), Johnathan_15 (EB), LimaBean_15 (EB), Milomuff_16 (EB), PastaFagioli_15 (EB), Phisb_15 (EB), PondAmelia_19 (EB), SirBeanington_15 (EB), Solea_17 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:
•Start number 22 was manually annotated 1 time for cluster EB.
•Start number 23 was manually annotated 14 times for cluster EB.
•Start number 24 was manually annotated 9 times for cluster EB.

Gene Information:
Gene: Abigail_15 Start: 10292, Stop: 10077, Start Num: 24
Candidate Starts for Abigail_15:
(Start: 24 @10292 has 9 MA's), (26, 10235), (27, 10154),

Gene: Albedo_15 Start: 10144, Stop: 9923, Start Num: 24
Candidate Starts for Albedo_15:
(Start: 22 @10180 has 1 MA's), (Start: 24 @10144 has 9 MA's),

Gene: Avocadoman_15 Start: 10235, Stop: 10020, Start Num: 24
Candidate Starts for Avocadoman_15:
(Start: 24 @10235 has 9 MA's), (26, 10178), (27, 10097),

Gene: AylexOG_16 Start: 10506, Stop: 10303, Start Num: 23
Candidate Starts for AylexOG_16:

(Start: 23 @10506 has 14 MA's), (25, 10452), (28, 10356), (29, 10341),

Gene: BubbaBear_15 Start: 10180, Stop: 9923, Start Num: 22
Candidate Starts for BubbaBear_15:
(Start: 22 @10180 has 1 MA's), (Start: 24 @10144 has 9 MA's),

Gene: CupcakePrincess_15 Start: 10201, Stop: 9998, Start Num: 23
Candidate Starts for CupcakePrincess_15:
(Start: 23 @10201 has 14 MA's), (25, 10147), (28, 10051), (29, 10036),

Gene: DirtyBubble_15 Start: 10405, Stop: 10187, Start Num: 23
Candidate Starts for DirtyBubble_15:
(21, 10441), (Start: 23 @10405 has 14 MA's),

Gene: Doobus_15 Start: 10410, Stop: 10189, Start Num: 24
Candidate Starts for Doobus_15:
(17, 10515), (20, 10482), (Start: 22 @10446 has 1 MA's), (Start: 24 @10410 has 9 MA's),

Gene: Eula_15 Start: 10162, Stop: 9959, Start Num: 23
Candidate Starts for Eula_15:
(Start: 23 @10162 has 14 MA's), (25, 10108), (28, 10012), (29, 9997),

Gene: Finalfrontier_16 Start: 10674, Stop: 10471, Start Num: 23
Candidate Starts for Finalfrontier_16:
(Start: 23 @10674 has 14 MA's), (25, 10620), (28, 10524),

Gene: Jabb_15 Start: 10201, Stop: 9998, Start Num: 23
Candidate Starts for Jabb_15:
(Start: 23 @10201 has 14 MA's), (25, 10147), (28, 10051), (29, 10036),

Gene: Johnathan_15 Start: 10173, Stop: 9958, Start Num: 24
Candidate Starts for Johnathan_15:
(Start: 24 @10173 has 9 MA's), (26, 10116), (27, 10035),

Gene: Jovita_15 Start: 10263, Stop: 10060, Start Num: 23
Candidate Starts for Jovita_15:
(Start: 23 @10263 has 14 MA's), (25, 10209), (28, 10113), (29, 10098),

Gene: Kenzers_15 Start: 10175, Stop: 9975, Start Num: 23
Candidate Starts for Kenzers_15:
(Start: 23 @10175 has 14 MA's), (25, 10124), (28, 10028), (30, 9989),

Gene: Lilo27_15 Start: 10138, Stop: 9935, Start Num: 23
Candidate Starts for Lilo27_15:
(Start: 23 @10138 has 14 MA's), (25, 10084), (28, 9988),

Gene: LimaBean_15 Start: 10173, Stop: 9958, Start Num: 24
Candidate Starts for LimaBean_15:
(Start: 24 @10173 has 9 MA's), (26, 10116), (27, 10035),

Gene: Lynlen_15 Start: 10175, Stop: 9975, Start Num: 23
Candidate Starts for Lynlen_15:
(Start: 23 @10175 has 14 MA's), (25, 10124), (28, 10028), (30, 9989),

Gene: Milomuff_16 Start: 10559, Stop: 10344, Start Num: 24
Candidate Starts for Milomuff_16:
(Start: 24 @10559 has 9 MA's), (26, 10502), (27, 10421),

Gene: MsUbiquitous_15 Start: 10201, Stop: 9998, Start Num: 23
Candidate Starts for MsUbiquitous_15:
(Start: 23 @10201 has 14 MA's), (25, 10147), (28, 10051), (29, 10036),

Gene: Nicky22_16 Start: 10609, Stop: 10406, Start Num: 23
Candidate Starts for Nicky22_16:
(Start: 23 @10609 has 14 MA's), (25, 10555), (28, 10459),

Gene: PastaFagioli_15 Start: 10279, Stop: 10064, Start Num: 24
Candidate Starts for PastaFagioli_15:
(Start: 24 @10279 has 9 MA's), (26, 10222), (27, 10141),

Gene: Pecas_15 Start: 10162, Stop: 9959, Start Num: 23
Candidate Starts for Pecas_15:
(Start: 23 @10162 has 14 MA's), (25, 10108), (28, 10012), (29, 9997),

Gene: Phisb_15 Start: 10144, Stop: 9923, Start Num: 24
Candidate Starts for Phisb_15:
(16, 10270), (Start: 22 @10180 has 1 MA's), (Start: 24 @10144 has 9 MA's),

Gene: PondAmelia_19 Start: 10398, Stop: 10177, Start Num: 24
Candidate Starts for PondAmelia_19:
(1, 10896), (2, 10866), (3, 10824), (4, 10809), (5, 10779), (6, 10770), (7, 10764), (8, 10761), (9, 10704),
(10, 10692), (11, 10653), (12, 10641), (13, 10626), (14, 10566), (15, 10557), (18, 10494), (19, 10488),
(Start: 22 @10434 has 1 MA's), (Start: 24 @10398 has 9 MA's),

Gene: QMacho_16 Start: 10645, Stop: 10442, Start Num: 23
Candidate Starts for QMacho_16:
(Start: 23 @10645 has 14 MA's), (25, 10591), (28, 10495), (29, 10480),

Gene: SarBear_15 Start: 10138, Stop: 9935, Start Num: 23
Candidate Starts for SarBear_15:
(Start: 23 @10138 has 14 MA's), (25, 10084), (28, 9988), (29, 9973),

Gene: SirBeanington_15 Start: 10153, Stop: 9932, Start Num: 24
Candidate Starts for SirBeanington_15:
(17, 10258), (20, 10225), (Start: 22 @10189 has 1 MA's), (Start: 24 @10153 has 9 MA's),

Gene: Solea_17 Start: 10559, Stop: 10344, Start Num: 24
Candidate Starts for Solea_17:
(Start: 24 @10559 has 9 MA's), (26, 10502), (27, 10421),

Gene: Swervy_15 Start: 10138, Stop: 9935, Start Num: 23
Candidate Starts for Swervy_15:
(Start: 23 @10138 has 14 MA's), (25, 10084), (28, 9988), (29, 9973),

Gene: TukTuk_15 Start: 10198, Stop: 9995, Start Num: 23
Candidate Starts for TukTuk_15:

(Start: 23 @10198 has 14 MA's), (25, 10144), (28, 10048), (29, 10033),